



1. The Solar Ultraviolet Imaging Telescope (SUIT)



Topic: Science and Technology

In News: The Solar Ultraviolet Imaging Telescope (SUIT), developed by Pune's Inter-University Center for Astronomy and Astrophysics (IUCAA), is set to be integrated with the ADITYA-L1 mission.

More on the Topic

- Through SUIT, scientists shall have a **seamless measurement of solar radiation from Hard X-ray to Infrared**, as well as **in-situ measurements of particles in the solar wind, including the Sun's magnetic field at the L1 point.**
- It is unique because it will provide **full disk images of the sun in 2000 to 4000 Å wavelength range** which has never been obtained.
- SUIT, for the first time, will allow ISRO to record images in the wavelength crucial for **maintaining the Ozone and Oxygen content in the atmosphere of the Earth.**
- SUIT will also measure **the UV radiation hazardous for skin cancer.**
- The SUIT telescope will address **fundamental questions such as the existence of a higher temperature atmosphere above the cooler surface of the Sun and the origin and variation of near-ultraviolet radiation and high-energy solar flares.**

About Aditya L1 Mission:

- ADITYA-L1 will be ISRO's first space observatory dedicated to studying the Sun.
- It will fly approximately **1.5 million kilometers from Earth to the L1, or Lagrange point 1, which is one of the five favorable spots for observing the Sun.**

- A satellite around the L1 point has the major advantage of **continuously viewing the Sun without occultation/eclipses.**
- The mission aims to provide regular images and updates on the Sun's surface phenomena and space weather.
- The Aditya-L1 mission will carry seven different payloads capable of studying various phenomena on the Sun across the electromagnetic spectrum and solar wind.
- The satellite will be launched **by a PSLV-XL launch vehicle** from Sriharikota.

Source: Indian Express

2. Pradhan Mantri Bhartiya Janaushadhi Pariyojana (PMBJP)



The infographic for the Pradhan Mantri Bhartiya Janaushadhi Pariyojana (PMBJP) features a central image of Prime Minister Narendra Modi waving. To the left, it includes the logos for 'भारतीय जन औषधि परियोजना' and 'my GOV मेरी सरकार'. The main title 'PM Bhartiya Janaushadhi Pariyojana' is prominently displayed in blue and orange, with the tagline 'Ensuring Affordable Healthcare For All' below it. Four key points are listed with corresponding icons: 1. Create awareness about generic medicines (people icon), 2. Give access to quality medicines through over 8,675 Janaushadhi Stores (pill icon), 3. Generate employment by engaging individual entrepreneurs in opening PMBJP stores (shop icon), and 4. Medicines available at prices less than 50%-90% than that of the open market (rupee icon).

Topic: Government Schemes



In News: The Jan Aushadhi Kendras selling generic drugs at affordable prices have seen their sales rise more than 170 times over the last nine years.

More on the Topic:

- Currently, the country has 9,484 Jan Aushadhi Kendras which will be increased to 10,000, and the product basket of 1,800 drugs and 285 surgical items is expected to go up to 2,000 and 300 respectively.
- The idea behind the programme is **to offer highly subsidised prices without compromising on quality.**
- Each batch of the drugs after its receipt at the warehouses is tested at laboratories accredited by the **National Accreditation Board for Testing and Calibration Laboratories for ensuring best quality.**

Pradhan Mantri Bhartiya Janaushadhi Pariyojana:

- Pradhan Mantri Bhartiya Janaushadhi Pariyojana (PMBJP) is **a campaign launched by the Department of Pharmaceuticals** to provide quality medicines at affordable prices to the masses.
- PMBJP stores have been set up **to provide generic drugs**, which are available at lesser prices but are equivalent in quality and efficacy as expensive branded drugs.
- It was **launched by the Department of Pharmaceuticals in November 2008** under the name Jan Aushadi Campaign.
- **Pharmaceutical & Medical Devices Bureau of India (PMBI)** is the implementation agency for PMBJP.

About Jan Aushadhi Store (JAS):

- All therapeutic medicines are made available from Jan Aushadhi Stores.
- In addition to medicines and surgical items supplied by BPPI, Jan Aushadhi stores also sell allied medical products commonly sold in chemist shops so as to improve the viability of running the Jan Aushadhi store.
- The quality, safety and efficacy of medicines are ensured by getting each batch of medicines procured from CPSUs as well as private suppliers tested from NABL approved laboratories and conforming to the required standards before the same are supplied to Supers stockists /Jan Aushadhi Stores from the Warehouse of PMBI.

Generic drugs provisions under Patents Act, 2005:

- Generic versions of patented drugs will be permitted to be manufactured and exported under a Compulsory License (CL) to meet major health needs of underdeveloped countries.

Source: Hindu

1. Migration and Development Brief



Topic: Reports and Indices

In News: According to the World Bank's latest Migration and Development Brief, India, which registered a growth of more than 24% to reach a record-high \$111 billion in remittances in 2022, is expected to post a growth of just 0.2% in remittance inflows in 2023.

More on the Topic:

- Remittance refers to **the transfer of money by individuals, typically migrant workers, to family members in their home countries.**
- Demand for migrants in the GCC countries are declining, where declining oil prices are expected to slow growth.
- The growth of remittances is likely to be the highest in Latin America and the Caribbean as the labour market in the US continues to be strong.
- Remittance growth is expected to be the lowest in South Asia (0.3%), mainly because of the high base in 2022 along with slowing demand for highly skilled IT workers in the US and Europe.

Top sources of remittances for India:

- Almost 36% of India's remittances are from the **high-skilled and largely high-tech Indian migrants in three high-income destinations — the US, United Kingdom, and Singapore.**
- **High energy prices and low food price inflation in the GCC countries,** which remain the single largest destination for less-skilled South Asian migrants, had positive spillovers for all countries.

What was the trend for remittances in 2022?

- In 2022, India posted more than 24% growth in its inward remittances.
- This represented 63% of South Asia's remittance flows.
- The top five recipient countries for remittances in 2022 were India, followed by Mexico, China, the Philippines, and Pakistan.

Impacts of Remittance:

- At the micro-level, **remittances boost a family's income**, which leads to improved nutritional outcomes, higher spending on education, increased purchasing power, more disposable incomes, and a better standard of living.
- Remittances also **enable recipients to boost their investments, savings and financial literacy** as a stable stream of overseas income can ease credit constraints of unbanked households.
- From a macro perspective, **remittances increase consumption in the economy as the disposable income of families increases**. This helps in **pushing up the GDP growth**.
- Remittances also **keep the foreign reserves of India stable**, thereby helping the Indian rupee hold up against the US dollar and other major currencies.
- Remittances can further act as **insurance at a time when the country faces macroeconomic shocks**; natural disasters (floods, earthquakes), financial crises, political upheaval, for instance.

The many ways in which remittances can offset an economy:

- Remittances can **undermine the incentives for recipients to work**.
- In India and most other overseas countries, **remittances are also feared to be one of the ways in which foreign money can be laundered for illegal and unethical activities**, with terrorism being a major concern etc.

Source: Hindu

4. LEED Net-Zero Certification

**Topic: Environment
and Ecology**

LEED Credit Categories





In News: India has been recognised by the US Green Building Council (USGBC) and Green Business Certification Inc (GBCI) as a top country in terms of LEED Zero green building projects, surpassing both the United States of America and China.

More on the Topic:

- LEED (Leadership in Energy and Environmental Design) is the world's most widely used green building rating system in the world.
- The rating system is developed by the **United States Green Building Council (USGBC)**.
- Available for virtually all building types, LEED certification provides **a framework for healthy, highly efficient, and cost-saving green buildings, which offer environmental, social and governance benefits.**
- LEED certification is a globally recognized symbol of sustainability achievement and leadership.
- To achieve LEED certification, a project earns points by adhering to prerequisites and credits that address **carbon, energy, water, waste, transportation, materials, health and indoor environmental quality.**
- Projects go through a verification and review process by GBCI and are awarded points that correspond to a level of LEED certification: **Certified** (40-49 points), **Silver** (50-59 points), **Gold** (60-79 points) and **Platinum** (80+ points).

Source: PIB

5. Reef Sharks



Topic: Environment and Ecology

In News: Reef sharks, those found in coral reefs around the world, are disappearing with the five most common species experiencing a decline of up to 73 per cent.

More on the Topic:

- The Reef Shark's habitat include Tropical waters near coral reefs, sea grass beds and mangroves.
- There are five species of reef sharks namely, The Caribbean reef shark, nurse shark, grey reef shark, blacktip reef shark and whitetip reef shark.
- "Overfishing" is driving reef sharks towards extinction.
- They are **highly valued for their meat**, leather, liver oil, and fishmeal, which make them prone to overfishing and targeting.
- They are often unintentionally caught by unregulated and illegal fishing practices as well.
- Degradation and destruction of their coral reef habitat further threatens the species.

Source: Hindu

6. Tapas UAV



Topic: Science and
Technology

ge the world



In News: DRDO and Indian Navy demonstrated command and control of Tapas UAV from ground station to warship at sea.

More on the Topic:

- Equipped with advanced sensors and cameras, the TAPAS UAV **can capture high-resolution images and videos.**
- The collected data is transmitted to a ground control station for further analysis.
- The Tapas UAV, developed by DRDO, **is a Medium Altitude Long Endurance (MALE) unmanned aerial vehicle capable of operating at altitudes of up to 28,000 feet** with an endurance of over 18 hours.
- Designed to fulfill the **Intelligence, Surveillance, Target Acquisition, Tracking & Reconnaissance (ISTAR) requirements** of the tri-services, the Tapas UAV can effectively operate in both day and night conditions.
- The UAV can be controlled remotely and also has the ability to execute pre-programmed flight plans autonomously with precision and flexibility.

Source: Hindu

7. Dugdh Sankalan Sathi App

Topic: e Governance



Go, change the world



In News: The Union Minister of Heavy Industries unveiled "Dugdh Sanakalan Sathi Mobile App" at Uttarakhand.

More on the Topic:

- The app will inform all services to milk producers in English, Hindi, Punjabi, Telugu and other languages.
- **Key features and benefits of the app include:**
- Increased **transparency** among stakeholders
- Online monitoring of daily milk poured at Milk Cooperative Societies
- **Real-time milk price updates** from the cloud server, ensuring transparency and eliminating human errors.
- **Direct beneficiary transfers** of milk payments and government subsidies to the milk producers' bank accounts through the app
- Push notifications for milk collection to the milk producers' app.

Source: Hindu
